

<b>STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL</b>		<b>97-028A</b>
<u>INSTRUCTIONS</u>		
<ol style="list-style-type: none"> <li>1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.</li> <li>2. The submitter of this form must complete blocks 4, 5, 6, and 7.</li> <li>3. The preparing activity must provide a reply within 30 days from receipt of the form.</li> </ol> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.</p>		
<b>I RECOMMEND A CHANGE:</b>	1. DOCUMENT NUMBER <b>MIL-STD-2500B</b>	2. DOCUMENT DATE (YYMMDD) <b>970822</b>
3. DOCUMENT TITLE National Imagery Transmission Format		
4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>  Table A-3, NITF image subheader, IREP BANDn field  (See Attachment)		
5. REASON FOR RECOMMENDATION The IREP BANDn field definition does not adequately describe how to use the field.		
6. SUBMITTER		
a. NAME <i>(Last, First, Middle Initial)</i> Beck, Larry	b. ORGANIZATION Logicon Geodynamics, Inc.	
c. ADDRESS <i>(Include Zip Code)</i> Suite 300 2801 Buford Highway, NE Atlanta, GA 30329	d. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (404) 248-9000 x2220 (2) AUTOVON <i>(If applicable)</i>	7. DATE SUBMITTED <i>(YYMMDD)</i> 971030
8. PREPARING ACTIVITY <b>National Imagery and Mapping Agency</b>		
a. NAME <b>Danny Rajan</b>	b. TELEPHONE <i>(Include Area Code)</i> (1) Commercial <b>(301) 227-3696</b> (2) AUTOVON	
c. ADDRESS <i>(Include Zip Code)</i> <b>SESR</b> <b>4600 Sangamore Road</b> <b>Bethesda, MD 20816-5003</b>	<b>IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:</b> Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340      AUTOVON 289-2340	

FIELD	NAME	SIZE	VALUE RANGE	TYPE
START: The fields IREPBANDn through LUTDnm repeat the number of times indicated in the NBANDS field or the XBANDS field.:				
IREPBANDn	<p>n<sup>th</sup> Band Representation. This field shall contain a valid indicator of the interpretation of the n<sup>th</sup> band of the image. Its purpose is to define the significance of the n<sup>th</sup> band of the image with regard to the general image type as recorded in IREP. However, the significance of each band in the image can be derived from the combination of the IREP field, IREPBANDn, ICAT, and ISUBCATn fields. Valid values of the IREPBANDn field depend on the value of the IREP field.</p> <p>The following standard values shall apply :</p> <ul style="list-style-type: none"> <li>• “R”, “G”, “B” respectively for a Red, Green, Blue representation of the band,</li> <li>• “LU” for a LUT representation of the band (e.g., a three table LUT for RGB and a single table LUT for shades of gray),</li> <li>• “M” for a monochrome representation of the band,</li> <li>• “N” for a band not designated for display but may be displayed if desired,</li> <li>• “Y”, “Cb”, “Cr” respectively for the Luminance, Chrominance (blue), and Chrominance (red) representation of a YcbCr601 (compressed case only) image,</li> <li>• “LX”, “LY” respectively for the X and Y bands of a location GRID,</li> <li>• “EL” for nD matrix data containing an elevation model,</li> <li>• “MX” for non-elevation nD matrix data. The field may not contain BCS spaces. Use “N” when no specific representation is defined for the band.</li> </ul> <p>The only valid values for IREP=“MULTI” are “N”, “M”, “R”, “G”, “B”, and “LU”:</p> <ul style="list-style-type: none"> <li>• It is strongly recommended that 3 of the multiple bands have the IREPBANDn fields populated with “R”, “G”, and “B”.</li> <li>• When bands marked as “LU”, “R”, “G”, “B” and “M” are present, the RGB designated bands are the default bands for display. If “R”, “G”, “B” are not present, the default displayable band is the “LU” band. If “R”, “G”, “B” or “LU” are not present, the default displayable band is the first “M” band. When no bands are marked with “LU”, “R”, “G”, “B” or “M”, the first three bands may be displayed as “R”, “G” and “B” respectively. For consistency, multispectral images can’t have more than one band each marked as “R”, “G” and “B”.</li> </ul>	2	BCS-A, Default is N. Standard values are : LU, R, G, B, M, N, Y, Cb, Cr, LX, LY, MX, EL. Additional values are allowed through the registration process.	R

FIELD	NAME	SIZE	VALUE RANGE	TYPE
	<ul style="list-style-type: none"> <li>IREPBANDn shall be filled with the “M” value, if the band is to be represented as monochrome.</li> <li>IREPBANDn shall be filled with the “LU” value, if the band is to be represented using a LUT.</li> <li>When IREPBANDn is filled with “N”, the band is not designated for display.</li> </ul> <p>The only valid values for IREP=“MONO” images are “M” or “N”.</p> <p>The only valid values for IREP=“RGB” images are “R”, “G” and “B”.</p> <p>The only valid value for IREP=“RGB/LUT” images is “LU”.</p> <p>The only valid values for IREP=“YcbCr601” images are “Y”, “Cb” and “Cr”.</p> <p>The only valid values for IREP = "1D", "2D", "3D", ..., nD (n = the number of bands) are “EL”, “MX”, “LX” and “LY”. See Appendix 1 to Annex D for details.</p>			

END : the fields IREPBANDn through LUTDnm repeat the number of times indicated in the NBANDS field or the XBANDS field. :